MULTI-BAND STEREO CASSETTE RECORDER

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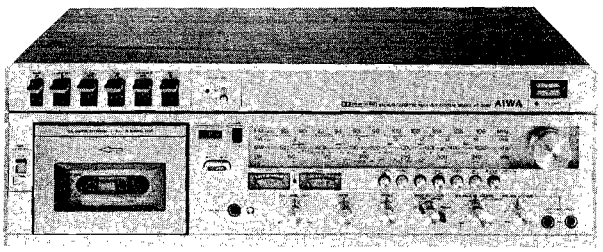
MODEL AF-3060AEE,UK

AIWA®

[SERVICE MANUAL]

ISO
Set using ISO screws



DATE OF ISSUE 30/8/1977

SUPPLEMENT

Furthermore, in order to improve the performance, the tuner circuit board, main amp/power circuit board and the meter circuit board have also been modified.
The modification was enforced on June 22th, 1977.
(Serial No. D-70622001)

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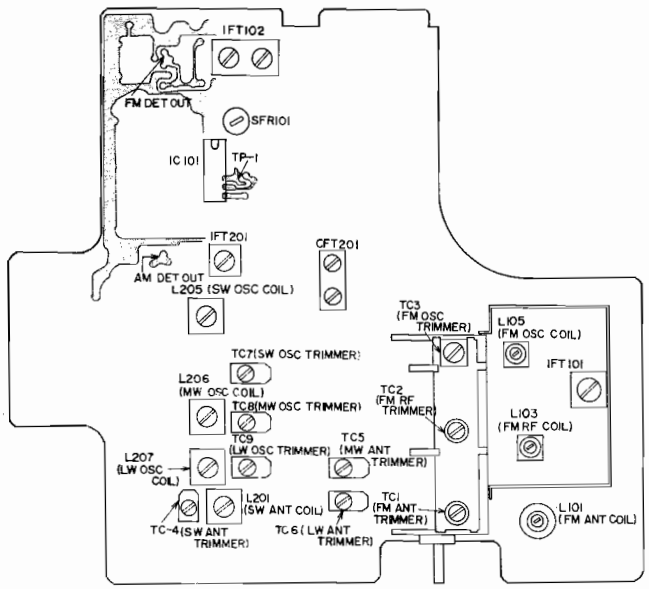
ADJUSTMENTS

≪TUNER SECTION≫



1. Instruments Required

Signal Source

1. RF Signal generator (AM, FM).
2. IF sweep generator (Centered 455/468 kHz for AM and 10.7 MHz for FM).

Output Indicator

1. V.T.V.M.
2. Oscilloscope

Regulator Adjusting Steps

For band	For stages on each band
1. AM (MW)	1st: IF 2nd: RF frequency range 3rd: RF tracking
2. SW	1st: RF frequency range 2nd: RF tracking
3. LW	1st: RF frequency range 2nd: RF tracking
4. FM	1st: IF 2nd: RF frequency range 3rd: RF tracking

Mpx Adjustment

Conditions:
Selector switch: FM
ST/MONO switch: MONO
Dial position: detuned from station
Adjust SFR101 for 19kHz ± 50Hz
Frequency at 19kHz test point (TP-1).

AM-IF Alignment

Step	Signal source Connect to	Set signal to	Alignment indicator Connect to	Set radio dial to	Adjust	Adjust for
1	AM IF sweep gen. Antenna terminal	Sweep centered 455 kHz EE 468 kHz UK	Oscilloscope AM det. output tab	Min. Freq.	CFT201 (AM)	Maximum

MW-RF Alignment

Step	Signal source Connect to	Set signal to	Alignment indicator Connect to	Set radio dial to	Adjust	Adjust for
1	AM signal gen. Antenna terminal	515 kHz (Modulated)	V.T.V.M. AM det. output tab	515 kHz (Low end)	L206 (OSC coil)	Maximum
2	Antenna terminal	1650 kHz (Modulated)	AM det. output tab.	1650 kHz (High end)	TC-8 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	600 kHz (Modulated)	AM det. output tab	600 kHz	L202 (ANT coil)	Maximum
5	Antenna terminal	1400 kHz (Modulated)	AM det. output tab	1400 kHz	TC-5 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and also step 3 if necessary)					

SW-RF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial	Adjust	Adjust for
1	AM signal gen. / Antenna terminal	SW 5.7 MHz (Modulated)	V.T.V.M. / AM det. output tab	5.7 MHz (Low end)	L205 (OSC coil)	Maximum
2	Antenna terminal	16.7 MHz (Modulated)	AM det. output tab	16.7MHz (High end)	TC-7 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	6.0 MHz (Modulated)	AM det. output tab	6.0 MHz	L201 (ANT coil)	Maximum
5	Antenna terminal	16.0MHz (Modulated)	AM det. output tab	16.0 MHz	TC-4 (ANT trim)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and also step 3 if necessary.)					

LW-RF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	FM signal gen. / Antenna terminal	145 kHz (Modulated)	V.T.V.M. / FM det. output tab	145 kHz (Low end)	L207 (OSC coil)	Maximum
2	Antenna terminal	350 kHz (Modulated)	FM det. output tab	(High end)	TC-9 (OSC trim)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	150 kHz (Modulated)	FM det. output tab	150 kHz	L204 (ANT coil)	Maximum
5	Antenna terminal	340 kHz (Modulated)	FM det. output tab	340 kHz	TC-6 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and step 3 if necessary.)					

FM-IF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	FM IF sweep gen. / Antenna terminal	Sweep centered 10.7 MHz	Oscilloscope / FM det. output tab	Max. Freq.	IFT101 IFT102	Max. Symmetrical response. equal heights
2	Antenna terminal	Sweep centered 10.7 MHz	FM det. output tab	Max. Freq.	IFT102	Symmetrical response. centered 10.7 MHz
3	(Repeat 1 and 2 to obtain a balanced "S" curve linearity.)					

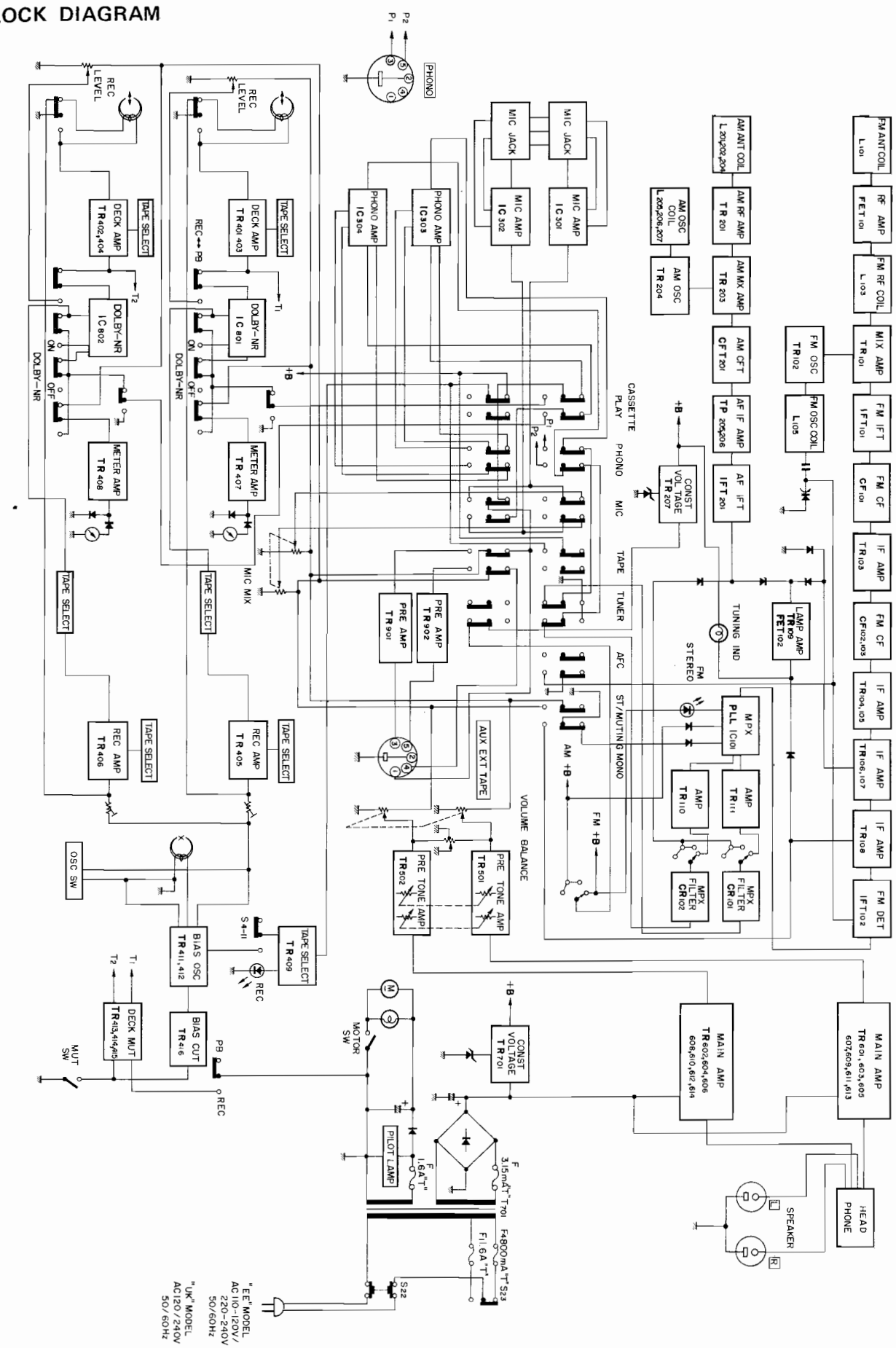
FM-RF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	FM signal gen. / Antenna terminal	87.5 MHz (Modulated)	V.T.V.M. / FM det. output tab	87.5 MHz	L105 (OSC coil)	Maximum
2	Antenna terminal	108.5 MHz (Modulated)	FM det. output tab	108.5 MHz	TC-3 (OSC trim)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	88 MHz (Modulated)	FM det. output tab	88 MHz	L101 (ANT coil) L103 (RF coil)	Maximum
5	Antenna terminal	108 MHz (Modulated)	FM det. output tab	108 MHz	TC-1 (ANT trim) TC-2 (RF trim)	Maximum
6	(Repeat steps 4 and 5, 6 to minimize tracking error, and step 3 if necessary.)					

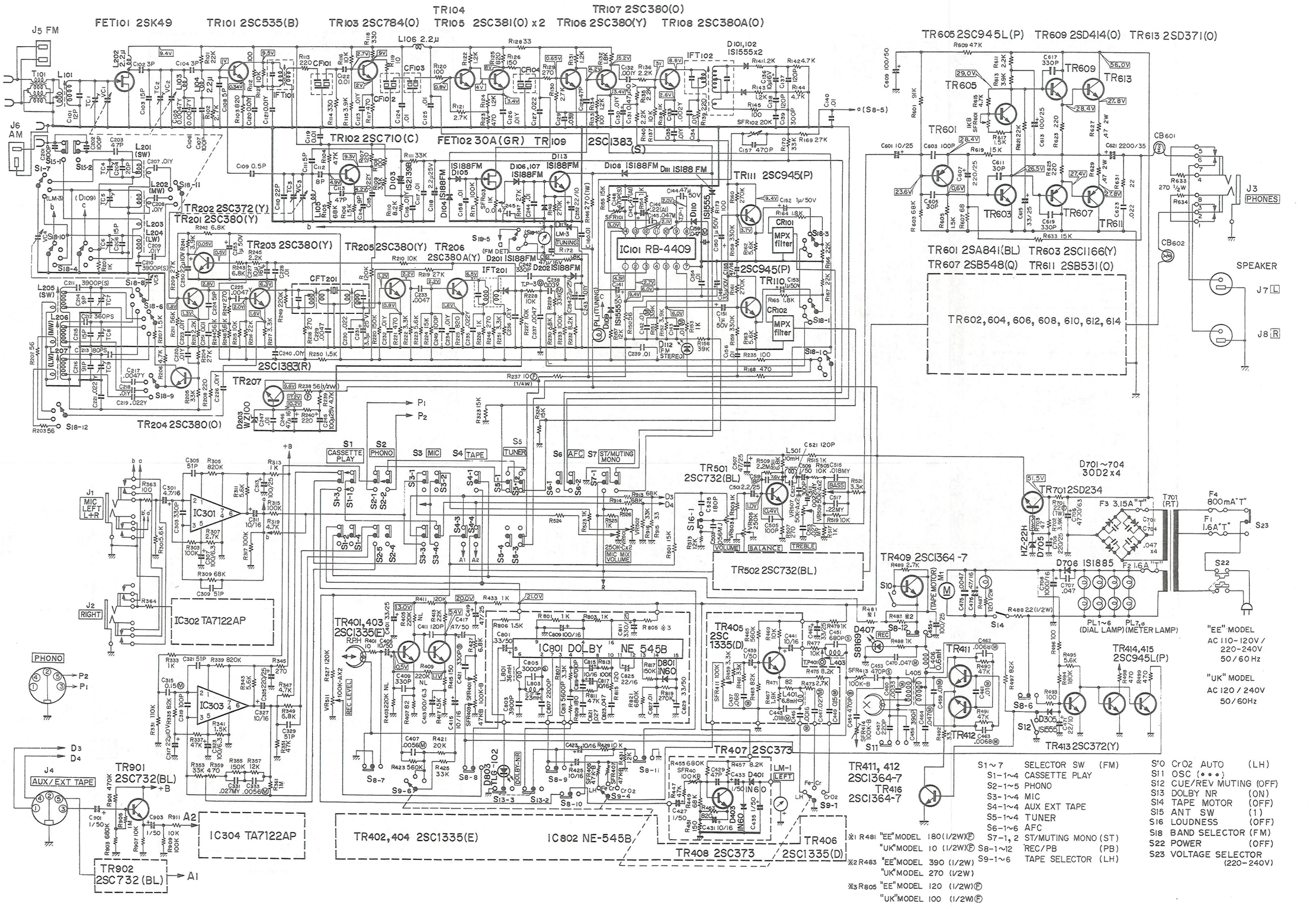
How to change the upper limit of FM frequency range from 108 MHz to 104 MHz.

Symbol No.	Description	108 MHz		104 MHz	
L105	FM Coil	1-1/2t	87-006-015-01	1-1/4t	87-006-036-01
C110	Ceramic capacitor	22pF	88-212-210-01	36pF	88-212-260-01

BLOCK DIAGRAM



SHEMATIC DIAGRAM

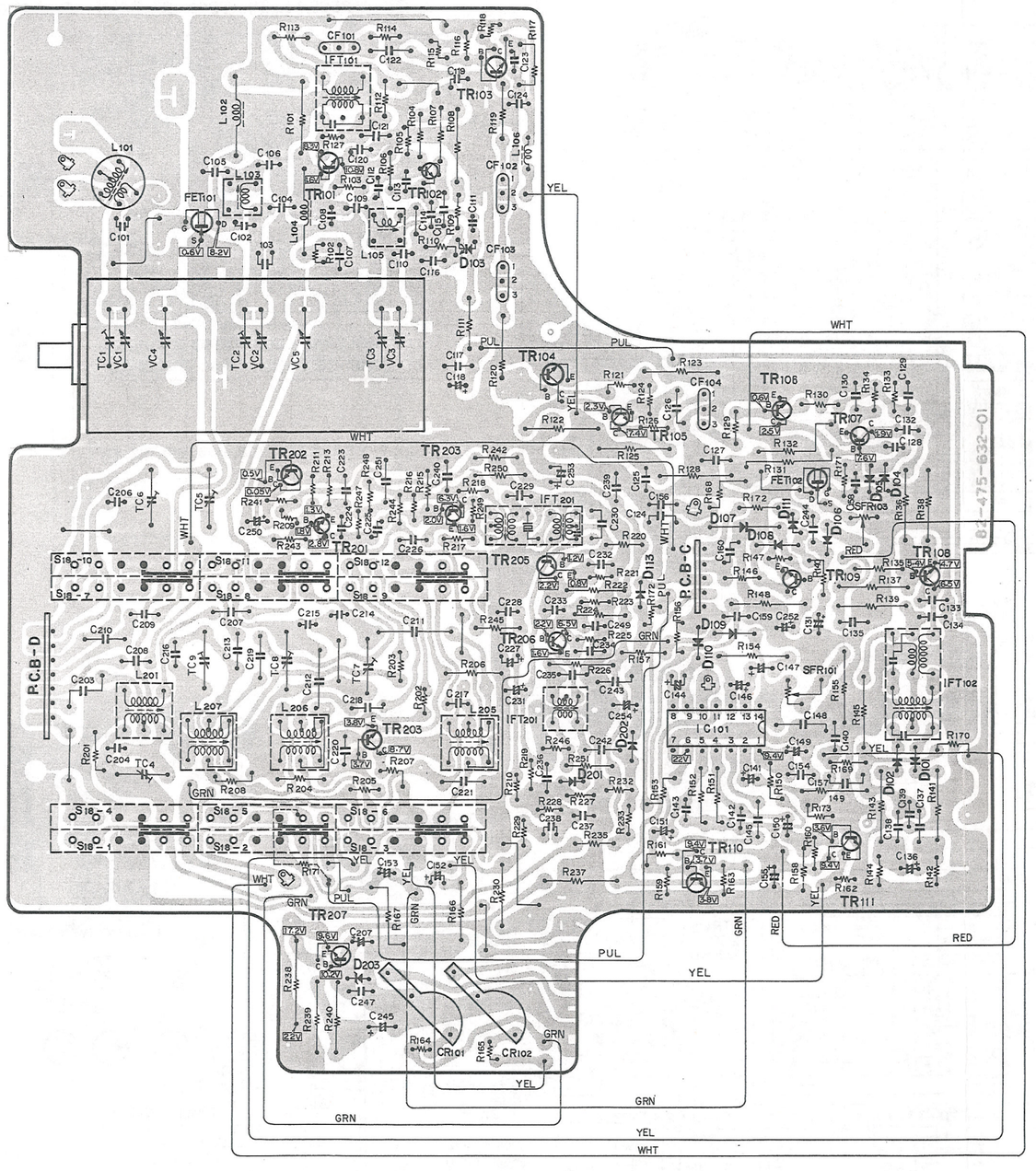


※1 R481 "EE"MODEL 180(1/2W)Ⓕ
"UK"MODEL 10 (1/2W)Ⓕ
※2 R483 "EE"MODEL 390 (1/2W)
"UK"MODEL 270 (1/2W)
※3 R805 "EE"MODEL 120 (1/2W)Ⓕ
"UK"MODEL 100 (1/2W)Ⓕ

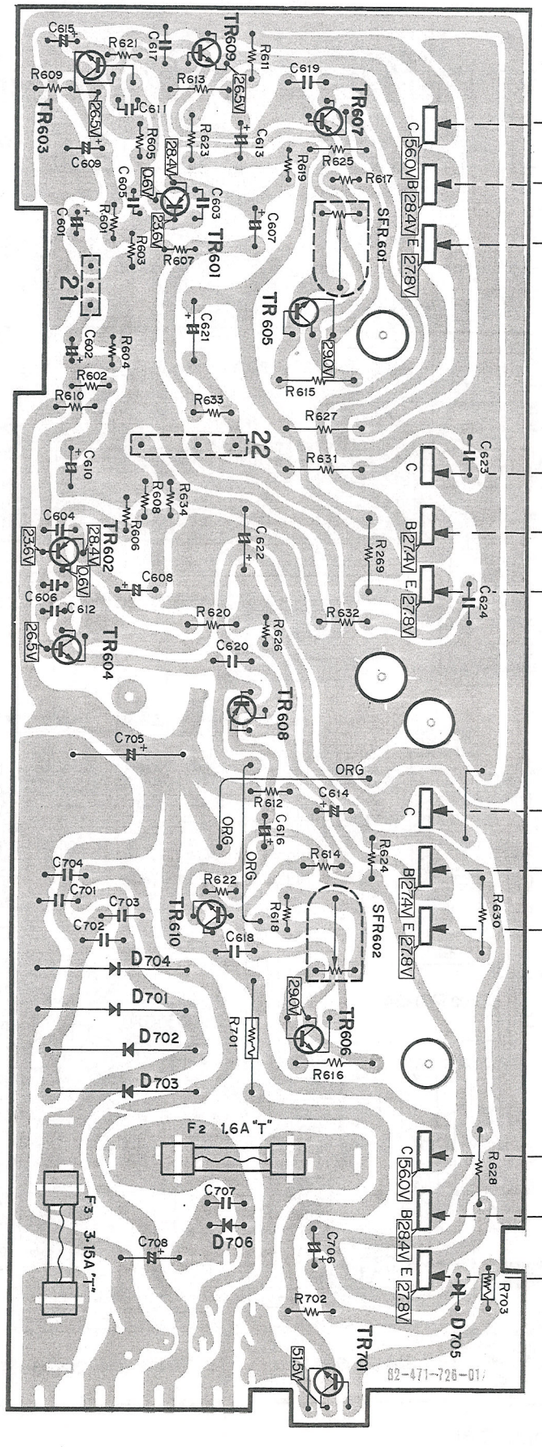
S1~7 SELECTOR SW (FM)
S1-1~4 CASSETTE PLAY
S2-1~5 PHONO
S3-1~4 MIC
S4-1~4 AUX EXT TAPE
S5-1~4 TUNER
S6-1~6 AFC
S7-1, 2 ST/MUTING MONO (ST)
S8-1~12 REC/PB (PB)
S9-1~6 TAPE SELECTOR (LH)

S10 CrO2 AUTO (LH)
S11 OSC (•••)
S12 CUE/REV MUTING (OFF)
S13 DOLBY NR (ON)
S14 TAPE MOTOR (OFF)
S15 ANT SW (1)
S16 LOUDNESS (OFF)
S18 BAND SELECTOR (FM)
S22 POWER (OFF)
S23 VOLTAGE SELECTOR (220-240V)

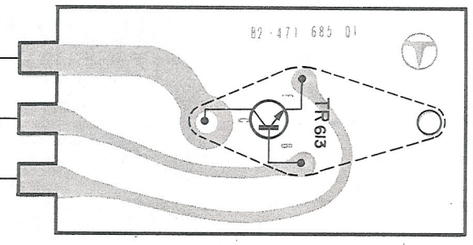
TUNER CIRCUIT BOARD



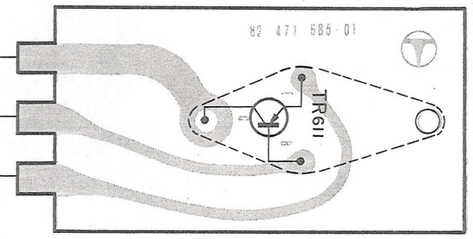
MAIN AMP/POWER CIRCUIT BOARD



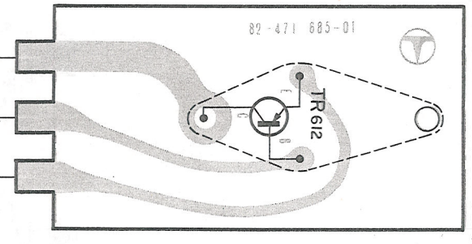
P.C.B - B (MAIN AMP / POWER CIRCUIT BOARD)



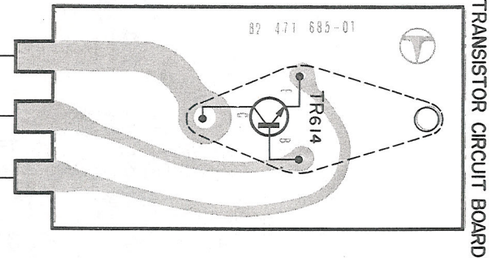
P.C.B - V (TRANSISTOR CIRCUIT BOARD)



P.C.B - W (TRANSISTOR CIRCUIT BOARD)



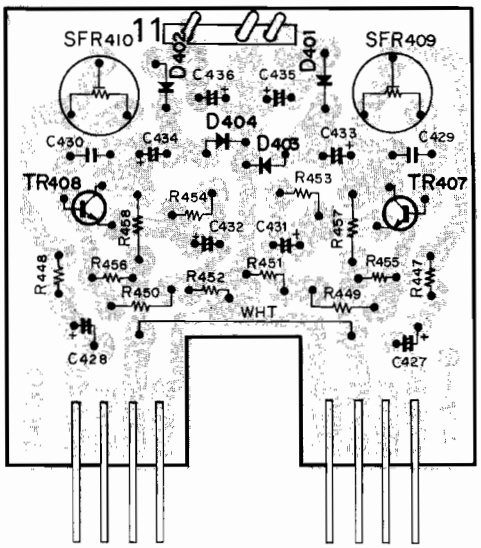
P.C.B - X (TRANSISTOR CIRCUIT BOARD)



P.C.B - Y (TRANSISTOR CIRCUIT BOARD)

METER AMP CIRCUIT BOARD

P.C.B-H (METER AMP CIRCUIT BOARD)



ÈLECTRICAL PARTS

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
≪TUNER CIRCUIT BOARD SECTION≫					
PCB-A	82-475-632-01		Tuner circuit board	*	1
TR101	89-305-352-01		Transistor, 2SC535(B)		1
TR102	89-307-103-01		Transistor, 2SC710(C)		1
TR103	89-307-843-01		Transistor, 2SC784(O)		1
TR104,105	89-303-813-01		Transistor, 2SC381(O)		2
TR106,201, 203,205	89-303-804-01		Transistor, 2SC380(Y)		4
TR107,204	89-303-803-01		Transistor, 2SC380(O)		2
TR108	87-026-045-01		Transistor, 2SC380A(O)		1
TR109	89-313-834-01		Transistor, 2SC1383(S)		1
TR110,111	89-309-456-01		Transistor, 2SC945(P)		2
TR202	89-303-724-01		Transistor, 2SC372(Y)		1
TR206	87-026-046-01		Transistor, 2SC380A(Y)		1
TR207	89-313-833-01		Transistor, 2SK49(Hz)		1
FET101	87-026-100-01		FET, 2SK49(Hz)		1
FET102	89-500-305-01		FET, 2SK30(A)		1
IC101	87-027-156-01		IC, KB4409		1
D101,102, 109,110	87-027-097-01		Diode, 1S1555		4
D103	87-026-049-01		Diode, 1S2139(B)		1
D104,105,106, 107,108,111, 113,201,202	88-052-188-11		Diode, 1S188(FM)		9
D203	87-027-142-01		Zener diode, WZ-100		1
L101	82-471-663-01		FM coil	AF-5080	1
L102,104,106	82-470-604-01		FM choke coil, 2.2μH	AF-3030	3
L103	82-475-626-01		FM coil	*	1
L105	87-006-015-01		FM coil, 1 1/2t		1
L201	87-006-039-01		SW antenna coil		1
L205	82-475-636-01		SW OSC coil	*	1
L206	82-475-635-01		MW OSC coil	*	1
L207	82-475-634-01		LW OSC coil	*	1
IFT101	84-173-614-01		FM IFT		1
IFT102	87-008-161-01		FM IFT (Ratio)		1
IFT201	87-008-160-01		AM IFT		1
CF101,102 103,104	87-030-047-01		FM ceramic filter, 10.7MHz		4
CFT201	87-008-118-01		AM ceramic filter trans, 455kH (EE model only)		1
CFT201	87-008-152-01		AM ceramic filter trans, 468kHz (UK model only)		1
VC1~5 TC1~3	82-471-662-01		VC	AF-5080	1
TC4,5,7,8	87-011-046-01		Trimmer, 1T8M		4
TC6,9	87-011-050-01		Trimmer, 1T16M		2
CR101,102	87-028-011-01		MPX filter		2
S18	82-471-666-01		Rotary switch (BAND SELECTOR)	AF-5080	1
SFR101	87-021-366-01		Semi-fixed resistor, 10kΩ-B		1
SFR102	87-021-468-01		Semi-fixed resistor, 20kΩ-B		1
SFR103	87-021-421-01		Semi-fixed resistor, 1kΩ-B		1
	82-467-211-01		Shield case		1
	82-467-706-01		Shield cap		1
	87-033-092-01		PCB tab(A)		6
			< **Resistors** >		
R150,202,203	88-181-560-01		56Ω 1/4W ±5% ELR		3
R112,133, 173,235	88-181-101-01		100Ω 1/4W ±5% ELR		3
R107	88-181-121-01		120Ω 1/4W ±5% ELR		1
R126	88-181-151-01		150Ω 1/4W ±5% ELR		1
R113,208	88-181-221-01		220Ω 1/4W ±5% ELR		2

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
R218,219 246,247	88-181-271-01		270Ω 1/4W ±5% ELR		4
R114,118	88-181-331-01		330Ω 1/4W ±5% ELR		2
R117,168,221	88-181-471-01		470Ω 1/4W ±5% ELR		3
R103,225	88-181-821-01		820Ω 1/4W ±5% ELR		2
R153,201,226	88-181-102-01		1kΩ 1/4W ±5% ELR		3
R124,131,134	88-181-122-01		1.2kΩ 1/4W ±5% ELR		3
R106,207,250	88-181-152-01		1.5kΩ 1/4W ±5% ELR		3
R132,164, 165,172	88-181-182-01		1.8kΩ 1/4W ±5% ELR		4
R135,140, 213,245	88-181-222-01		2.2kΩ 1/4W ±5% ELR		4
R102,121,130	88-181-272-01		2.7kΩ 1/4W ±5% ELR		3
R217,222,251	88-181-332-01		3.3kΩ 1/4W ±5% ELR		3
R115,151, 152,241	88-181-392-01		3.9kΩ 1/4W ±5% ELR		4
R206	88-181-472-01		4.7kΩ 1/4W ±5% ELR		1
R162,163 223,248	88-181-562-01		5.6kΩ 1/4W ±5% ELR		4
R230,242,243	88-181-682-01		6.8kΩ 1/4W ±5% ELR		3
R110,232	88-181-822-01		8.2kΩ 1/4W ±5% ELR		2
R116,127,210 215,227,228	88-181-103-01		10kΩ 1/4W ±5% ELR		6
R157	88-181-123-01		12kΩ 1/4W ±5% ELR		1
R224	88-181-153-01		15kΩ 1/4W ±5% ELR		1
R166,216	88-181-223-01		22kΩ 1/4W ±5% ELR		2
R147,169,204, 209,219	88-181-273-01		27kΩ 1/4W ±5% ELR		5
R109,111,170, 205,229	88-181-333-01		33kΩ 1/4W ±5% ELR		5
R156	88-181-393-01		39kΩ 1/4W ±5% ELR		1
R104	88-181-473-01		47kΩ 1/4W ±5% ELR		1
R211,244	88-181-563-01		56kΩ 1/4W ±5% ELR		2
R105	88-181-683-01		68kΩ 1/4W ±5% ELR		1
R171,233	88-181-104-01		100kΩ 1/4W ±5% ELR		2
R251	88-181-124-01		120kΩ 1/4W ±5% ELR		1
R220	88-181-154-01		150kΩ 1/4W ±5% ELR		1
R249	88-181-224-01		220kΩ 1/4W ±5% ELR		1
R160,161	88-181-274-01		270kΩ 1/4W ±5% ELR		2
R158,159	88-181-334-01		330kΩ 1/4W ±5% ELR		2
R119	88-131-100-01		10Ω 1/4W ±5%		1
R128	88-131-330-01		33Ω 1/4W ±5%		1
R108,120,145	88-131-101-01		100Ω 1/4W ±5%		3
R139,240	88-131-221-01		220Ω 1/4W ±5%		2
R123	88-131-471-01		470Ω 1/4W ±5%		1
R125	88-131-821-01		820Ω 1/4W ±5%		1
R138,154	88-131-102-01		1kΩ 1/4W ±5%		2
R122,141,143	88-131-122-01		1.2kΩ 1/4W ±5%		3
R136	88-131-222-01		2.2kΩ 1/4W ±5%		1
R142,144,239	88-131-472-01		4.7kΩ 1/4W ±5%		3
R137	88-131-103-01		10kΩ 1/4W ±5%		1
R155	88-131-153-01		15kΩ 1/4W ±5%		1
R101,166,167	88-131-223-01		22kΩ 1/4W ±5%		3
R148	88-131-274-01		270kΩ 1/4W ±5%		1
R237	87-029-015-01		10Ω 1/4W ±5% Fuse resistor		1
R238	87-029-033-01		56Ω 1/2W ±5% Fuse resistor		1
R146	88-152-271-01		270Ω 1W ±10%		1
			< **Capacitors** >		
C130,144	88-337-590-01		0.47μF 50V Electrolytic		2
C141,150,151, 152,153,253	88-337-100-01		1μF 50V Electrolytic		6

Symbol No.	PartNo.	Part No. Changed to	Description	Common Model	Q'ty
C118,254	88-336-200-01		2.2μF 25V Electrolytic		2
C231	88-336-300-01		3.3μF 25V Electrolytic		1
C245	88-336-120-01		100μF 25V Electrolytic		1
C136,227	88-335-110-01		10μF 16V Electrolytic		2
C155,246	88-335-510-01		47μF 16V Electrolytic		2
C250,252	88-333-210-01		22μF 10V Electrolytic		2
C149	88-333-310-01		33μF 10V Electrolytic		1
C146	87-015-104-01		0.22μF Aluminum solid		1
C147	87-015-106-01		0.47μF Aluminum solid		1
C213	88-617-460-01		180pF Styrol		1
C212	88-617-530-01		360pF Styrol		1
C148	88-617-550-01		470pF Styrol		1
C210,211	88-617-710-01		3900pF Styrol		2
C142,143	88-717-810-01		0.01μF Mylar		2
C145,159	88-717-850-01		0.047μF Mylar		2
C238	88-727-870-01		0.039μF Mylar		1
C112	88-212-080-01		8pF Ceramic		1
C101	88-212-120-01		12pF Ceramic		1
C103,206,215	88-212-150-01		15pF Ceramic		3
C204	88-212-200-01		20pF Ceramic		1
C110	88-212-210-01		22pF Ceramic		1
C113,128	88-212-290-01		47pF Ceramic		2
C224	88-212-300-01		51pF Ceramic		1
C216	88-212-360-01		91pF Ceramic		1
C107	88-212-410-01		100pF Ceramic		1
C137,138	88-212-420-01		120pF Ceramic		2
C139	88-212-510-01		300pF Ceramic		1
C242	88-212-520-01		330pF Ceramic		1
C102,104	88-213-030-01		3pF Ceramic		2
C108,111	88-213-050-01		5pF Ceramic		2
C114,214	88-213-090-01		9pF Ceramic		2
C109	88-213-110-01		0.5pF Ceramic		1
C132	88-214-610-01		0.001μF Ceramic		1
C135	88-214-652-01		0.002μF Ceramic		1
C105,106,217, 225,237	88-214-720-01		0.0047μF Ceramic		5
C115,219, 221,235	88-214-830-01		0.022μF Ceramic		4
C116,117,120, 121,123,126, 130,134,135, 207,208,209, 218,220,223, 226,232,234, 236,240,243	88-214-810-01		0.01μF Ceramic		21
C233	88-215-720-01		0.0047μF Ceramic		1
C119,122,124, 125,140,154, 156,158,160, 228,239,244, 247,251	88-215-810-01		0.01μF Ceramic		14
C127,230	88-215-830-01		0.022μF Ceramic		2
C129	88-215-850-01		0.047μF Ceramic		1
C203	88-232-290-01		47pF 50V Ceramic		1
≪MAIN AMP/POWER CIRCUIT BOARD SECTION≫					
PCB-B	82-471-726-11		Main amp./power circuit board (EE model only)	AF-5080	1
PCB-B	82-471-748-01		Main amp./power circuit board (UK model only)	AF-5080	1

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
< MAIN AMP SECTION >					
TR601,602	89-108-416-01		Transistor, 2SA841(BL)		2
TR603,604	89-311-664-01		Transistor, 2SC1166(Y)		2
TR605,606	89-309-456-01		Transistor, 2SC945L(P)		2
TR607,608	89-205-483-01		Transistor, 2SB548(Q)		2
TR609,610	89-404-143-01		Transistor, 2SD414(Q)		2
TR611,612	89-205-313-01		Transistor, 2SB531(O)		2
TR613,614	89-403-713-01		Transistor, 2SD371(O)		2
SFR601,602	87-021-464-01		Semi-fixed resistor, 1kΩ-B		2
	87-032-773-01		Pin, 3P		1
	87-032-437-01		3P mini plug		1
			< Resistors >		
R632	88-188-220-01		22Ω 1/4W ±5% ELR		1
R607,608	88-188-680-01		68Ω 1/4W ±5% ELR		2
R623,624, 625,626	88-188-221-01		220Ω 1/4W ±5% ELR		4
R605,606, 617,618	88-188-152-01		1.5kΩ 1/4W ±5% ELR		4
R611,612	88-188-222-01		2.2kΩ 1/4W ±5% ELR		2
R613,614	88-181-392-01		3.9kΩ 1/4W ±5% ELR		2
R619,620, 633,634	88-188-153-01		15kΩ 1/4W ±5% ELR		4
R621,622	88-188-223-01		22kΩ 1/4W ±5% ELR		2
R609,610	88-188-473-01		47kΩ 1/4W ±5% ELR		2
R603,604	88-188-683-01		68kΩ 1/4W ±5% ELR		2
R601,602	88-188-913-01		91kΩ 1/4W ±5% ELR		2
R631	88-130-220-41		22Ω 1/4W ±5% ELR		1
R615,616	88-130-472-01		4.7kΩ 1/4W ±5% ELR		2
R627,628, 629,630	87-029-012-01		0.47Ω 2W Metal film		4
			< Capacitors >		
C609,610	88-337-120-01		100μF 50V Electrolytic		2
C621,622	87-015-334-01		2200μF 35V Electrolytic		2
C601,602	87-015-247-01		10μF 25V Electrolytic		2
C615,616	88-336-310-01		33μF 25V Electrolytic		2
C613,614	88-336-120-01		100μF 25V Electrolytic		2
C607,608	88-336-220-01		220μF 25V Electrolytic		2
C605,606, 611,612	88-212-240-01		30pF Ceramic		4
C603,604	88-212-410-01		100pF Ceramic		2
C617,618, 619,620	88-212-520-01		330pF Ceramic		4
C623,624	87-012-099-01		0.022μF Ceramic		2
< POWER SECTION >					
TR701	89-402-344-01		Transistor, 2SD234		1
D701,702, 703,704	87-027-185-01		Diode, 30D2		4
D705	87-027-147-01		Zener diode, HZ22H		1
D706	87-027-083-01		Diode, 1S1885		1
F2	87-035-138-01		Fuse, 1.6A "T"		1
	87-098-018-01		Fuse label, 1.6A "T"		1
F3	87-035-191-01		Fuse, 3.15A "T"		1
	87-098-021-01		Fuse label, 3.15A "T"		1
	87-032-527-01		Fuse clamp (F2,3)		4
			< Resistors >		
R702	88-188-392-01		3.9kΩ 1/4W ±5% ELR		1
R701	87-029-009-01		22Ω 1/4W Fuse resistor		1
R703	87-029-023-01		47Ω 1/4W Fuse resistor		1

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
			< Capacitors >		
C705	87-015-335-01		4700μF 63V Electrolytic		1
C709	82-475-628-01		2.2μF 50V Electrolytic(BP)	*	1
C706	88-336-220-01		220μF 25V Electrolytic		1
C708	88-336-134-01		1000μF 25V Electrolytic		1
C701,702, 703,704	87-012-098-01		0.047μF 100V Ceramic		4
C707	87-012-097-01		0.047μF 50V Ceramic		1
≪ METER AMP CIRCUIT BOARD SECTION ≫					
PCB-H	82-471-743-01		Meter amp circuit board	AF-5080	1
TR407,408	89-309-456-01		Transistor, 2SC945L(P)		2
D401,402, 403,404	88-051-060-01		Diode, 1N60		4
SFR409,410	87-021-367-01		Semi-fixed resistor, 100kΩ-B		2
	87-032-653-01		Pin, 3P		1
	87-032-634-01		Pin, 4P		2
			< Resistors >		
R451,452	88-181-151-01		150Ω 1/4W ±5% ELR		2
R453,454	88-181-821-01		820Ω 1/4W ±5% ELR		2
R457,458	88-181-822-01		8.2kΩ 1/4W ±5% ELR		2
R447,448	88-181-473-01		47kΩ 1/4W ±5% ELR		2
R449,450	88-181-683-01		68kΩ 1/4W ±5% ELR		2
R455,456	88-181-684-01		680kΩ 1/4W ±5% ELR		2
			< Capacitors >		
C427,428,433, 434,435,436	88-337-100-01		1μF 50V Electrolytic		6
C431,432	88-335-110-01		10μF 16V Electrolytic		2
C429,430	88-212-290-01		47pF Ceramic		2
≪ FUSE CIRCUIT BOARD SECTION ≫					
PCB-T	82-470-656-21		Fuse circuit board	AF-3030	1
F1	87-035-138-01		Fuse, 1.6A "T"		1
	87-098-018-01		Fuse label, 1.6A "T"		1
F4	87-035-136-01		Fuse, 800mA "T"		1
	87-098-015-01		Fuse label, 800mA "T"		1
	87-032-527-01		Fus clamp (F1,F4)		4
≪ TRANSISTOR CIRCUIT BOARD SECTION ≫					
PCB-V,W,X,Y	82-471-685-11		Transistor circuit board (EE model only)	AF-5080	4
PCB-V,W,X,Y	82-471-749-01		Transistor circuit board (UK model only)	AF-5080	4
TR613,614	89-403-713-01		Transistor, 2SD371(O)		2
TR611,612	89-205-313-01		Transistor, 2SB531(O)		2
≪ MISCELLANEOUS ≫					
T701	82-475-631-01		Power transformer (EE model only)	*	1
T701	82-475-637-01		Power transformer (UK model only)	*	1
T101	87-006-047-01		Balun		1
RPH	87-046-130-01		REC/PB head		1
EH	87-046-132-01		Erase head (EE model only)		1
EH	87-046-127-01		Erase head (UK model only)		1
M1	82-470-616-31		Motor	AF-3030	1
LM1,2	82-470-602-01		Level meter (VU)	AF-3030	2
LM3	82-475-602-11		Level meter (TUNING)	*	1
J3	87-032-677-01		Headphone jack		1
S10	82-471-619-01		Leaf switch (CrO_2 AUTO)	AF5080	1
S11	87-031-347-01		Slide switch (OSC)		1
S14	87-031-261-01		Micro switch (TAPE MOTOR)		1
S17	87-031-361-01		Leaf switch (AUTO STOP)		1
S19	87-031-382-01		Push switch (POWER)		1
S20	87-031-343-01		Slide switch (VOLTAGE SELECTOR)		1

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
L202,203,204	82-471-664-01		MW, LW bar antenna coil	AF-5080	1
PL9	82-471-647-01		Pilot lamp (CASSETTE LAMP)	AF-5080	1
PL10	82-471-617-31		Pilot lamp (TUNING INDICATOR)	AF-5080	1
CON11	82-470-624-01		Connector ass'y 3P	AF-3030	1
CON19	82-470-630-11		Connector ass'y 3P	AF-3030	1
CON15	82-470-645-01		Connector ass'y 3P	AF-3030	1
CON9	82-471-626-21		Connector ass'y 3P	AF-5080	1
CON1	82-471-627-01		Connector ass'y 3P	AF-5080	1
CON7	82-471-629-01		Connector ass'y 3P	AF-5080	1
CON22	82-475-612-01		Connector ass'y 3P	*	1
CON14	82-475-616-11		Connector ass'y 3P	*	1
CON5	82-475-630-01		Connector ass'y 3P	*	1
CON21	82-471-728-01		Connector ass'y 3P	AF-5080	1
CON3	82-470-627-11		Connector ass'y 4P	AF-3030	1
CON17	82-470-634-11		Connector ass'y 4P	AF-3030	1
CON10	82-471-704-11		Connector ass'y 4P	AF-5080	1
CON8	82-475-615-11		Connector ass'y 4P	*	1
CON12	82-470-643-31		Connector ass'y 5P	AF-3030	1
CON4	82-471-631-31		Connector ass'y 5P	AF-5080	1
CON13	82-470-642-41		Connector ass'y 6P	AF-3030	1
CON23	82-470-644-11		Connector ass'y 6P	AF-3030	1
CON20	82-475-614-11		Connector ass'y 6P	*	1
CON2	82-470-626-21		Connector ass'y 7P	AF-3030	1
CON18	82-471-665-01		Connector ass'y 10P	AF-5080	1
	82-470-646-01		Fasten ass'y	AF-3030	1
	82-470-647-01		Fasten ass'y	AF-3030	1
			< **Resistor** >		
R633,634	88-140-271-11		27Ω 1/2W ±5%		2
			< **Capacitors** >		
C151,476	88-335-510-01		47μF 16V Electrolytic		2
C475	88-214-720-01		0.0047μF Ceramic		1

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